

## **Remarks**

Applicants respectfully request reconsideration of the present U.S. Patent application as amended herein. Claims 4, 9, 14, 15, 20, 23 and 24 have been amended. No claims have been added or canceled. Thus, claims 1-24 are pending.

### OBJECTION TO THE SPECIFICATION

The specification was objected to for including informalities. Specifically, in paragraph 0020, the acronym "ODBC" was not clearly described. Paragraph 0020 has been amended to include Open Database Connectivity, for which ODBC is a well-known acronym. ODBC is an open standard API that can be used to access a database. ODBC was created by the SQL Access Group and first released in September 1992. Accordingly, Applicants request that the objection to the specification be withdrawn.

### CLAIM REJECTIONS – 35 U.S.C. § 112, SECOND PARAGRAPH

Claims 4-7, 9, 10 and 13-24 were rejected as being indefinite for failing to particularly point out and distinctly claim the subject matter of the invention. Claims 4, 9, 14, 15, 20, 23 and 24 have been amended to remove the informalities identified in the Office Action.

In rejecting claim 13 the Office Action states:

... it is unclear if the TCSs acts as a client or a server or both given that claim 1 requires that it be a server while claim 13 appears to require that it act as a client.

See page 2. Applicants believe that this characterization is the result of a misunderstanding of claim 1, which does not require a TCS to act as a server. Claim 1 recites:

*a server coupled to communicate with the plurality of TCSs to provide signals to control the wind turbines, the server being further to store data received from the plurality of TCSs and to perform database management on the received data.*

Thus, claim 1 recites a server coupled with the TCSs, not that the TCSs operate as servers. Accordingly, Applicants request that the rejection of claims 4-7, 9, 10 and 13-24 as being indefinite be withdrawn.

CLAIM REJECTIONS – 35 U.S.C. § 102(b)

Claims 14-24 were rejected as being anticipated by U.S. Patent Application No. 2002/0029097 of Pionzio, Jr, et al. (*Pionzio*). For at least the reasons set forth below, Applicants submit that claims 14-24 are not anticipated by *Pionzio*.

Claim 14 recites:

*a Supervisory Command and Data Acquisition (SCADA) element at each wind turbine to collect data from the respective wind turbines to collect data from the turbines and to store a first subset of the data locally and to transmit the first subset of data according to non-real-time intervals and to transmit a second subset of data over a wind farm network to provide approximately real-time data, wherein the second subset of data is stored until successfully transferred;*

Thus, Applicants claim collecting data, storing a first subset of the data locally and transmitting the first subset of data according to non-real-time intervals and also transmitting a second subset of the data over a wind farm network to provide approximately real-time data. The second subset of data is stored until successfully transferred.

*Pionzio* discloses a wind farm control system that collects data from turbine sites, substation sites and meteorological sites. See Abstract and Fig. 1A. However, *Pionzio* discloses that the server receives data ***at regular intervals***. *Pionzio* does not disclose storing a first subset of the data locally and transmitting the first subset of data according to non-real-time intervals and also transmitting a second subset of the data over a wind farm network to provide approximately real-time data. Therefore, *Pionzio* cannot anticipate the invention as claimed in claim 14.

Claims 15-24 depend from claim 14. Because dependent claims include the limitations of the claims from which they depend, Applicants submit that claims 15-24 are not anticipated by *Pionzio* for at least the reasons set forth above.

CLAIM REJECTIONS – 35 U.S.C. § 103(a)

Claims 1-13 were rejected as being unpatentable over *Pionzio*. For at least the reasons set forth below, Applicants submit that claims 1-13 are not rendered obvious by *Pionzio*.

Claim 1 recites:

a plurality of turbine communication servers (TCSs) within wind turbines of the wind farm to collect data from the turbines and to store a first subset of the data locally and to transmit the first subset of data according to non-real-time intervals and to transmit a second subset of data over a wind farm network to provide approximately real-time data, wherein the second subset of data is stored until successfully transferred...

Thus, Applicants claim collecting data, storing a first subset of the data locally and transmitting the first subset of data according to non-real-time intervals and also transmitting a second subset of the data over a wind farm network to provide

approximately real-time data. The second subset of data is stored until successfully transferred.

As discussed above, *Pionzio* does not disclose storing a first subset of the data locally and transmitting the first subset of data according to non-real-time intervals and also transmitting a second subset of the data over a wind farm network to provide approximately real-time data. Therefore, *Pionzio* cannot teach or suggest the invention as claimed in claim 1.

Claims 2-13 depend from claim 1. Because dependent claims include the limitations of the claims from which they depend, Applicants submit that claims 2-13 are not anticipated by *Pionzio* for at least the reasons set forth above.

CLAIM REJECTIONS – 35 U.S.C. § 102(b)

Claims 14-16, 19, 20, 23 and 24 were rejected as being anticipated by U.S. Patent Application No. 2004/0230377 of Ghosh, et al. (*Ghosh*). For at least the reasons set forth below, Applicants submit that claims 14-16, 19, 20, 23 and 24 are not anticipated by *Ghosh*.

Claim 14 recites:

a Supervisory Command and Data Acquisition (SCADA) element at each wind turbine to collect data from the respective wind turbines to collect data from the turbines and to store a first subset of the data locally and to transmit the first subset of data according to non-real-time intervals and to transmit a second subset of data over a wind farm network to provide approximately real-time data, wherein the second subset of data is stored until successfully transferred;

Thus, Applicants claim collecting data, storing a first subset of the data locally and transmitting the first subset of data according to non-real-time intervals and also

transmitting a second subset of the data over a wind farm network to provide approximately real-time data. The second subset of data is stored until successfully transferred.

*Ghosh* is directed to collection and distribution of real time data. See, for example, Abstract. Therefore, *Ghosh* does not disclose storing a first subset of the data locally and transmitting the first subset of data according to non-real-time intervals and also transmitting a second subset of the data over a wind farm network to provide approximately real-time data as claimed in claim 14.

Claims 15, 16, 19, 20, 23 and 24 depend from claim 14. Because dependent claims include the limitations of the claims from which they depend, Applicants submit that claims 15, 16, 19, 20, 23 and 24 are not anticipated by *Ghosh* for at least the reasons set forth above.

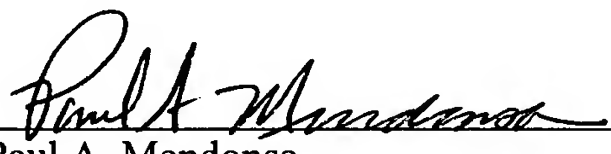
CONCLUSION

For at least the foregoing reasons, Applicants submit that the rejections have been overcome. Therefore, claims 1- 24 are in condition for allowance and such action is earnestly solicited. The Examiner is respectfully requested to contact the undersigned by telephone if such contact would further the examination of the present application.

Please charge any shortages and credit any overcharges to our Deposit Account number 02-2666.

Respectfully submitted,  
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Rachael Brown

7/15/05  
Date